

Claims

1. Device for conveying bulk goods (4) having a bulk goods delivery apparatus and a bulk goods receiving
5 apparatus, characterised by a measuring apparatus (7, 7a, 7b) arranged between the receiving apparatus and the delivery apparatus in order to determine the delivery rate.

2. Device according to claim 1, characterised in that it has a first section (2a) comprising the delivery
10 apparatus and, following said delivery apparatus in the conveying direction, a second section (2b) comprising the receiving apparatus.

3. Device according to claim 1, characterised in that it has a supply container (21, 22) comprising the delivery
15 apparatus.

4. Device according to claim 3, characterised in that it has a mixing container comprising the receiving apparatus.

5. Device according to claim 3, characterised in that
20 the receiving apparatus is designed as a conveying apparatus (2b, 23).

6. Device according to one of the claims 1 to 5, characterised in that the measuring apparatus (7, 7a, 7b) has an inlet section linked to the delivery apparatus, an
25 output section linked to the receiving apparatus and an intermediate conveyor (11) arranged between the two sections.

7. Device according to one of the claims 1 to 6, characterised in that the transfer of the bulk goods (4)
30 from the delivery apparatus to the measuring apparatus (7, 7a, 7b) takes place under gravity.

8. Device according to one of the claims 1 to 7, characterised in that the transfer of the bulk goods from

the measuring apparatus (7, 7a, 7b) into the receiving apparatus takes place by means of the intermediate conveyor (11) and along a gradient path (14).

9. Device according to one of the claims 1 to 8,
5 characterised in that the measuring apparatus (7, 7a, 7b) contains a measuring element (17) for cooperation with the bulk goods (4) flowing through it.

10. Device according to claim 9, characterised in that the measuring element (17) is a measuring wheel which can
10 be induced to rotate by the bulk goods stream.

11. Device according to claim 10, characterised in that the measuring wheel is set up to generate electrical pulses.

12. Device according to one of the claims 9 to 11,
15 characterised in that the measuring element (17) is arranged between the intermediate conveyor (11) and the output section.

13. Device according to one of the claims 1 to 12, characterised in that it is designed as a continuous
20 conveyor.

14. Device according to claim 13, characterised in that it is designed as a chain conveyor.

15. Device according to one of the claims 6 to 14, characterised in that the intermediate conveyor (11) is
25 designed as a screw conveyor.

16. Device according to one of the claims 9 to 15, characterised in that the intermediate conveyor (11) and the measuring element (17) are arranged in a trough (12) provided with the inlet section and the output section.

30 17. Device according to claim 16, characterised in that the gradient path comprises a base section of the trough (12), said base section being arranged inclined.

18. Device according to one of the claims 1 to 17,
characterised in that it is linked to at least one dosing
apparatus (5) having a discharge unit (6) and the discharge
unit (6) is under the control of the measuring apparatus
5 (7, 7a, 7b).

19. Device according to claim 18, characterised in
that the dosing apparatus (5) contains a dosing organ
driven by the measuring wheel.

20. Device according to claim 19, characterised in
10 that an adjustable gearbox is connected between the
measuring wheel and the dosing organ.

21. Device according to one of the claims 18 to 20,
characterised in that the dosing apparatus (5) has an
electrical control circuit for the discharge unit (6), said
15 control circuit processing the electrical impulses.

22. Dosing apparatus with a discharge unit for dosed
feeding of additives into a bulk goods stream generated by
means of a conveying device (1), characterised in that the
discharge unit (6) is controlled by a measuring apparatus
20 (7, 7a, 7b) measuring the delivery rate of the conveying
device (1).

23. Dosing apparatus according to claim 22,
characterised in that the conveying device (1) is designed
according to at least one of the claims 1 to 17.

25 24. Dosing apparatus according to claim 22 or 23,
characterised in that it contains a dosing organ driven by
the measuring wheel.

25. Dosing apparatus according to claim 24,
characterised in that an adjustable gearbox is arranged
30 between the measuring wheel and the dosing organ.

26. Dosing apparatus according to claim 22 or 23,
characterised in that it has an electrical control circuit

for the discharge unit, said control circuit processing the electrical impulses.

27. Mixing apparatus for bulk goods (4) having at least two conveying devices leading to a common receiving
5 apparatus (23, 25) for feeding in different bulk goods, whereby each conveying device is designed according to at least one of the claims 1 to 19.